HIRSCHMANN
A BELDEN BRAND

Data sheet
SPIDER 1TX/1FX-SM

Industrial Ethernet:Entry Level Hubs And Switches:Unmanaged Standard Rail Switches:SPIDER 1TX/1FX-SM	
Name	**SPIDER 1TX/1FX-SM**
	Entry Level Industrial ETHERNET Rail Switch, store and forward switching mode, Ethernet and Fast-Ethernet (10/100 Mbit/s)
Delivery informations	
Document created at	26-02-2011
Availability	available
Product description	
Description	Entry Level Industrial ETHERNET Rail Switch, store and forward switching mode, Ethernet and Fast-Ethernet (10/100 Mbit/s)
Port type and quantity	1 x 10/100BASE-TX, TP cable, RJ45 sockets, auto-crossing, auto-negotiation, auto-polarity 1 x 100BASE-FX, SM cable, SC sockets
Type	SPIDER 1TX/1FX-SM
Order No.	943 891-001
More Interfaces	
Power supply/signaling contact	1 plug-in terminal block, 3-pin, no signal contact
Network size - length of cable	
Twisted pair (TP)	0 - 100 m
Single mode fiber (SM) 9/125 µm	0 - 32,5 km, 16 dB link budget at 1300 nm, A = 0,4 dB/km, 3 dB reserve, D = 3,5 ps/(nm x km)
Network size - cascadibility	
Line - / star topology	Any
Power requirements	
Operating voltage	9,6 V DC - 32 V DC
Current consumption at 24 V DC	Max. 130 mA
Power consumption	Max. 3,0 W 10,2 Btu (IT)/h at 24 V DC
Service	
Diagnostics	LEDs (power, link status, data, data rate)
Ambient conditions	
Operating temperature	0 °C to +60 °C
Storage/transport temperature	-40 °C to +70 °C
Relative humidity (non-condensing)	10% to 95%
MTBF	101.5 years; MIL-HDBK 217F: Gb 25 °C
Mechanical construction	
Dimensions (W x H x D)	25 mm x 114 mm x 79 mm
Mounting	DIN Rail 35 mm
Weight	105 g
Protection class	IP 30
Mechanical stability	
IEC 60068-2-27 shock	15 g, 11 ms duration, 18 shocks
IEC 60068-2-6 vibration	3.5 mm, 3 Hz - 9 Hz, 10 cycles, 1 octave/min.; 1g, 9 Hz - 150 Hz, 10 cycles, 1 octave/min.
EMC interference immunity	
EN 61000-4-2 electrostatic discharge (ESD)	6 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	10 V/m (80 - 1000 MHz)
EN 61000-4-4 fast transients (burst)	2 kV power line, 4 kV data line
EN 61000-4-5 surge voltage	Power line: 2 kV (line/earth), 1 kV (line/line), 1 kV data line
EN 61000-4-6 conducted immunity	10 V (150 kHz - 80 kHz)

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EMC emitted immunity	
FCC CFR47 Part 15	FCC CFR47 Part 15 Class A
EN 55022	EN 55022 Class A
Approvals	
Safety of industrial control equipment	cUL 508 (E175531)
Scope of delivery and accessories	
Scope of delivery	Device, terminal block, operating manual
Accessories to order separately	Rail power supply RPS 30, RPS 80 EEC or RPS 120 EEC, 19" installation frame